

## Level 1 Validation Certificate



This document verifies that the Level 1 Validation process was completed. The session details and audit review outcomes are included here.

*This certificate is required for submission – alongside the Level 1 validated water audit software file – to the California Department of Water Resources.*

Call Date: 9/11/2019

### Water Supplier

Supplier Name: Irvine Ranch Water District

Supplier Participants: Allan Pascual

### Key Audit Metrics

Data Validity Score: 79

ILI: 0.79

Real Loss: 15.64 gal / conn / day

Apparent Loss: 5.11 gal / conn / day

Non-Revenue Water as Percent of Cost of Operating System: 13.4%

### Validator

Validator: Kevin Burgers,  
Water Systems Optimization

Validator Qualifications: Water Audit Validator Certificate from  
the AWWA California Nevada Section

### Certification Statement by Validator

This water loss audit report has been Level 1 validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34.

All recommendations on volume derivation and Data Validity Grades were incorporated into the water audit. ☒

## Level 1 Validation – Water Supplier Confirmation

This document confirms participation in and endorsement of the Level 1 Validation as completed.

*This acknowledgement is required for submission – alongside your Level 1 validated water audit software file – to the California Department of Water Resources.*

Water Supplier Name:

IRVINE RANCH WATER DISTRICT

Water Supplier Public Water System ID:

3010092

Water Audit Period:

FY2018/19

### Water Audit & Water Loss Improvement Steps

*Steps taken in the audit period timeframe to increase data source accuracy, reduce real losses, and/or reduce apparent losses, as informed by the water audit.*

- a. Improved the practice of comparing and verifying production volume numbers from both Operations and Finance reports and ensured both are consistent. As a result it has improved the accuracy of water supplied volume.
- b. Improved the identification and replacement of stuck meters in 2018 as part of the District's Water Loss Control Plan. The updated approach enables the District to generate actual volumes associated with stuck meters

### Certification Statement by Water Supplier Executive:

This water loss audit report meets the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained in their manual, *Water Audits and Loss Control Programs, Manual M36, Fourth Edition* and in the Free Water Audit Software version 5.

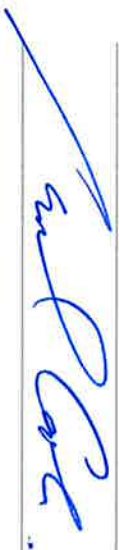
Executive Name (print):

Paul Cook

Executive Position:

General Manager

Signature:



Date

September 16, 2019